Abstract of the disclosure

A sustained-release preparation which comprises a physiologically active peptide of general formula

$$\begin{array}{c} \text{CH}(\text{CH}_3)_2 \\ \text{CH}_2\text{-R}_1 & \text{CH}_2\text{-R}_2 & \text{CH}_2\text{-OH} & \text{CH}_2\text{-R}_3 & \text{CH}_2\text{-R}_3 \\ \text{X-NH-CH-CO-NH-CH-CO-R}_3\text{-NH-CH-CO-N-CH-CO-NH-CH-CO-NH-CH-CO-NH-CH-CO-R}_7\text{-NH}_2 \\ \text{(D)} & \text{(D)} \end{array}$$

wherein X represents an acyl group; $R_1,\ R_2\ \text{and}\ R_4\ \text{each represents an aromatic cyclic group;}$ $R_3\ \text{represents a D-amino acid residue or a group of the}$ formula

wherein R3' is a heterocyclic group;

 R_5 represents a group of the formula $-(CH_2)_n-R_5$ ' wherein n is 2 or 3, and R_5 ' is an amino group which may optionally be substituted, an aromatic cyclic group or an O-glycosyl group;

 R_6 represents a group of the formula $-(CH_2)_n-R_6$ ' wherein n is 2 or 3, and R_6 ' is an amino group which may optionally be substituted;

R, represents a D-amino acid residue or an azaglycyl residue; and

Q represents hydrogen or a lower alkyl group, or a salt thereof and a biodegradable polymer having a terminal carboxyl group.

The sustained-release preparation shows a constant release of the peptide over a long time and is substantially free from an initial burst.